GPS-207S PROGRAMMING SOFTWARE USER MANUAL

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September 14, 2010
GPS207S Programming Software Manual vAp1.doc
Revision A.1

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CHANGE LOG

Date	Author	Description
2010-08-27	Doug Hamilton	Initial release (A.0)
2010-09-14	Doug Hamilton	Added new images for the Static Interval after once or twice a week reporting capability was added.

1.0 Introduction

The GPS-207S Programming Software is used to program the GPS-207 asset tracking device. This manual describes the installation of the software and the USB drivers required to communicate with the device. It also describes the options available within the software and how they effect the operation of the GPS-207 including what effects different settings have on the estimated life of the battery.

Supported operating systems for the GPS207S include Windows 2000, Windows XP and Windows Vista.

2.0 GPS-207S Installation

CD Install: To install the GPS207S programming software insert the CD into the CD-ROM drive of your computer. The installation should start automatically. If it does not, navigate to the CD using Windows Explorer and double click on the *setup.exe* file.

Download Install: If the installation files were downloaded navigate to the folder where they were downloaded, using Windows Explorer, and double click on the *setup.exe* file.

The installation process is typical for most Windows applications. The first screen (below) will appear once the installation program has been initialized.

GPS207S - InstallShield Wizard
Welcome to the InstallShield Wizard for GPS207S
The InstallShield(R) Wizard will install GPS207S on your computer. To continue, click Next.
WARNING: This program is protected by copyright law and international treaties.
< Back
Next >
Cancel

Figure 1: Installation Screen #1

Click on the Next button to advance to the second part of the installation process.

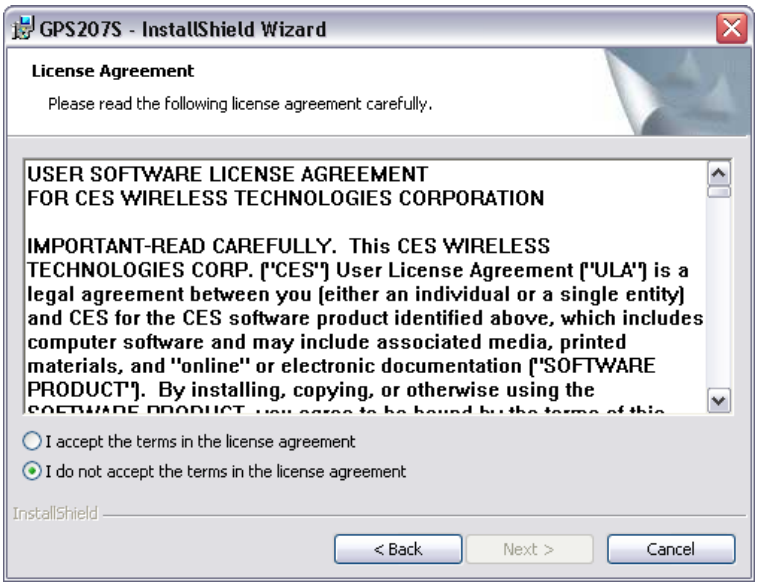
GPS207S - InstallShield Wizard
License Agreement
Please read the following license agreement carefully.
USER SOFTWARE LICENSE AGREEMENT
FOR CES WIRELESS TECHNOLOGIES CORPORATION
IMPORTANT-READ CAREFULLY. This CES WIRELESS TECHNOLOGIES CORP. ("CES") User License Agreement ("ULA") is a legal agreement between you (either an individual or a single entity) and CES for the CES software product identified above, which includes computer software and may include associated media, printed materials, and "online" or electronic documentation ("SOFTWARE PRODUCT"). By installing, copying, or otherwise using the
I accept the terms in the license agreement
I do not accept the terms in the license agreement
InstallShield
< Back
Next >
Cancel

Figure 2: Installation Screen #2

Read the License Agreement and select the “I accept the terms in the license agreement”. Then click on the next button to advance to the next screen. Note: If you do not agree to the terms if the license agreement then you cannot use the software.

GPS207S - InstallShield Wizard
Destination Folder
Click Next to install to this folder, or click Change to install to a different folder.
Install GPS207S to:
C:\Program Files\CES Wireless Technologies\GPS207S\
Change...
InstallShield
< Back
Next >
Cancel

Figure 3: Installation Screen #3

The next screen provides the capability to change the installation location of the GPS207S application. To accept the default location click on the next button. To change the location click on the Change button and navigate to the desired location. Click OK when done and click on the next button

The next screen will show the user details of the setup including the Setup Type, Application Installation Path and User information.

Figure 4: Installation Screen #4

Click on the install button to start the installation process. A screen similar to the one shown below will be displayed while the application is installed.

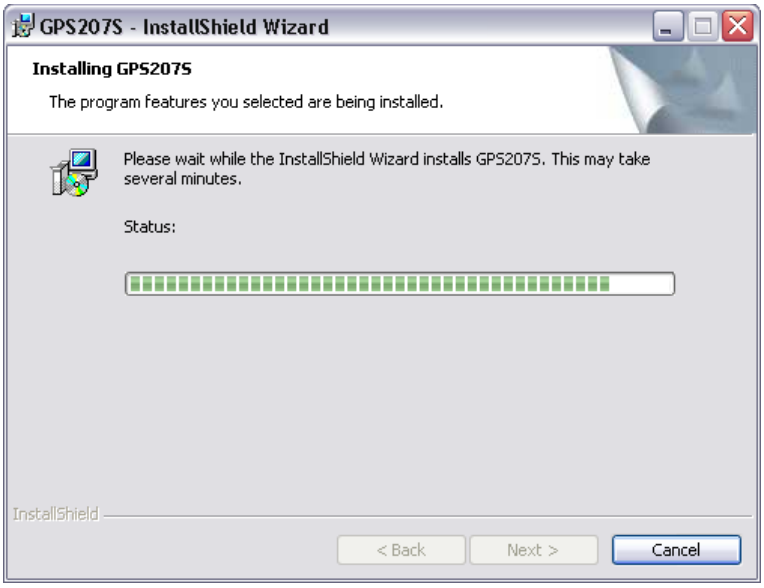
GPS207S - InstallShield Wizard
Installing GPS207S
The program features you selected are being installed.
Please wait while the InstallShield Wizard installs GPS207S. This may take several minutes.
Status:
InstallShield
< Back
Next >
Cancel

Figure 5: Installation Screen #5

When the installation of the GPS207S is complete this final screen will be displayed. Click on the finish button to exit the installation application. You should now have shortcuts to the GPS207S on the computer desktop and on the start menu.

GPS207S - InstallShield Wizard
InstallShield Wizard Completed
The InstallShield Wizard has successfully installed GPS207S. Click Finish to exit the wizard.
< Back
Finish
Cancel

Figure 6: Installation Screen #6

Figure 7: Desktop Shortcut

3.0 USB Drivers Installation

The GPS207S has a mini-USB style connector inside that is used to program the device. Open the GPS207. Disconnect the battery if it is connected and remove it from the enclosure. This will provide access to the USB connector.

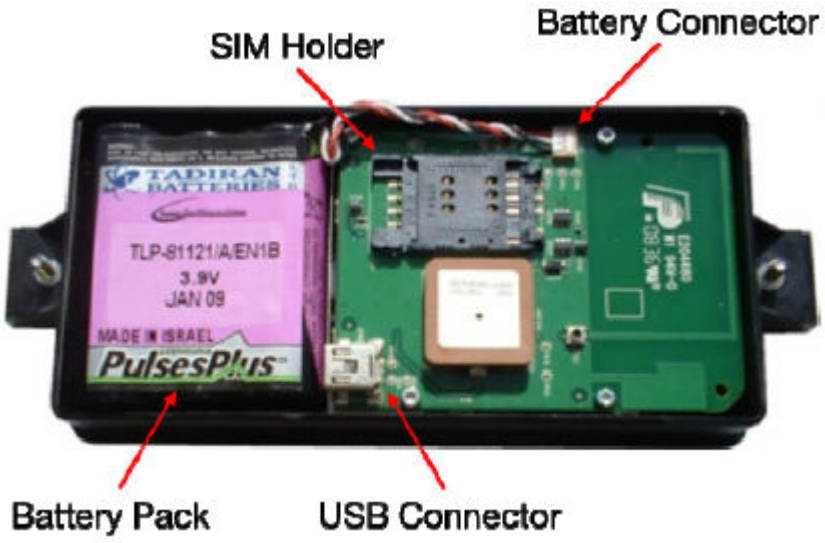

Figure 8: Location of USB Connector inside of the GPS207

The communication process is handled via USB Drivers that create virtual com ports. These virtual com ports are used to communicate with the device.

To install the drivers connect the GPS-207 to the computer using a mini-USB to USB cable (CES P/N CBLxx). When the GPS207 is connected to the computer for the first time, or to a different USB port, the user will be prompted to install the drivers.

The Windows operating system automatically detects the presence of a new USB device. The following screen will be displayed:

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Read our privacy policy
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
< Back
Next >
Cancel

Figure 9: Found New Hardware Wizard #1

Select *No, not this time* and click Next.

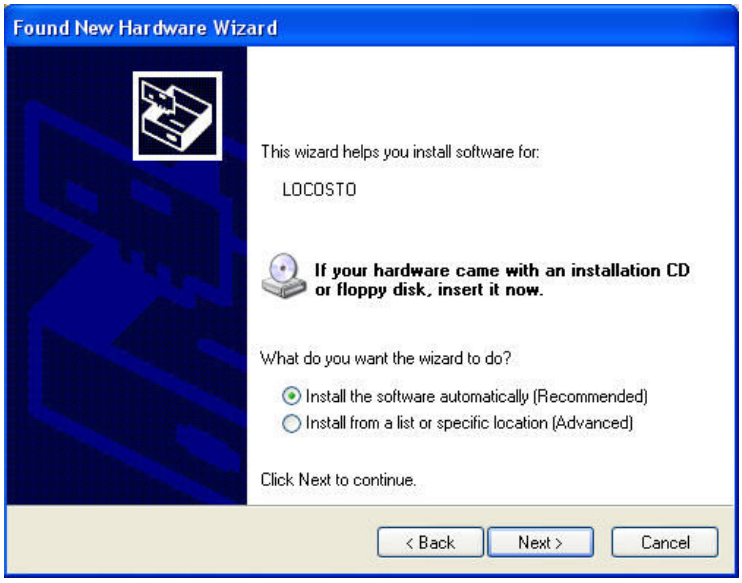
Found New Hardware Wizard
This wizard helps you install software for:
LOCOSTO
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

Figure 10: Found New Hardware Wizard #2

Select *Install from a list or specific location (Advanced)* and click Next.

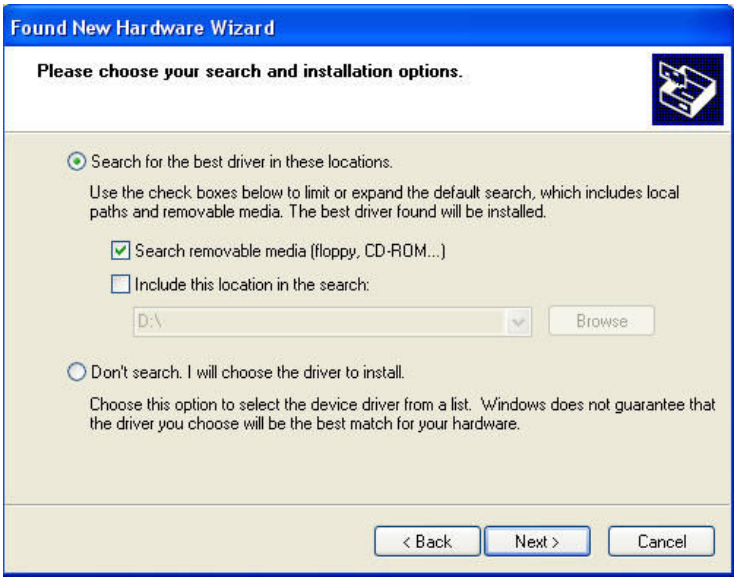
Found New Hardware Wizard
Please choose your search and installation options.
Search for the best driver in these locations.
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
Search removable media (floppy, CD-ROM...)
Include this location in the search:
D:\
Browse
Don't search. I will choose the driver to install.
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
< Back
Next >
Cancel

Figure 11: Found New Hardware Wizard #3

Click on the Include this location in the search check box. Browse to the folder where the USB drivers were installed. The default location is *C:\Program Files\CES Wireless Technologies\GPS207S\USB Drivers*. If the GPS207S installation path was changed during the software installation process the *USB Drivers* folder will be located in the selected location. Click Next.

The next screen shows the installation process.

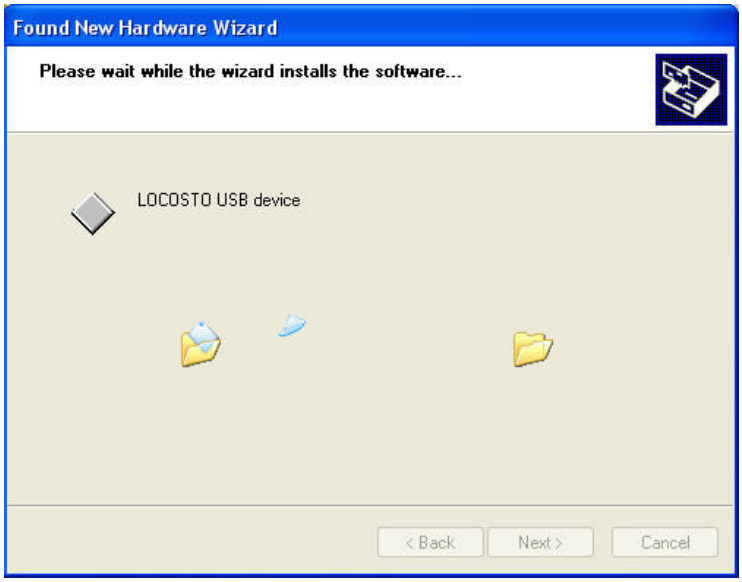

Figure 12: Found New Hardware Wizard #4

Once the installation of the driver for the Locosto USB device is complete the following screen will be displayed:

Figure 13: Found New Hardware Wizard #5

Click Finish and the next step in the USB device installation process will begin and the following screen will be displayed.

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Read our privacy policy
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
< Back
Next >
Cancel

Figure 14: Found New Hardware Wizard #6

Select *No, not this time* and click Next.

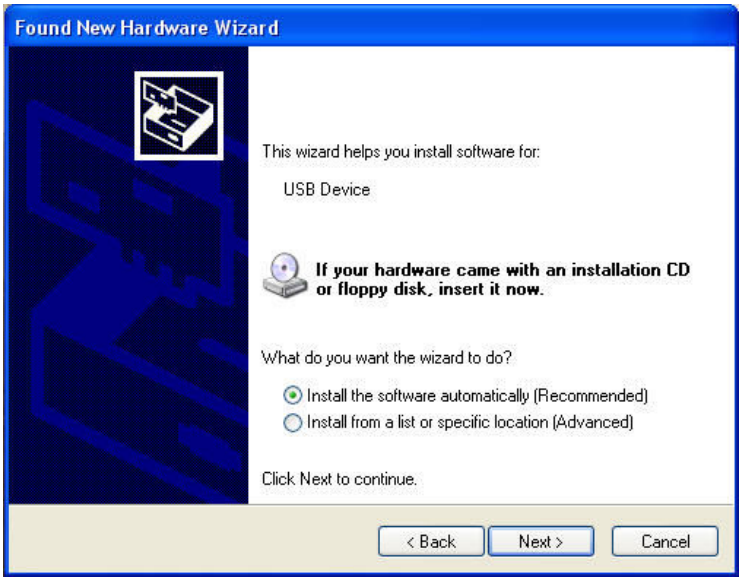
Found New Hardware Wizard
This wizard helps you install software for:
USB Device
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

Figure 15: Found New Hardware Wizard #7

Select *Install from a list or specific location (Advanced)* and click Next.

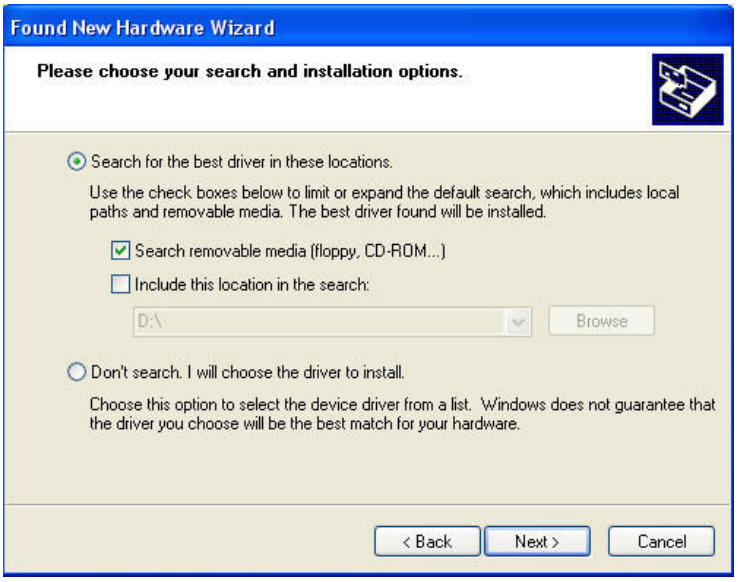
Found New Hardware Wizard
Please choose your search and installation options.
Search for the best driver in these locations.
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
Search removable media (floppy, CD-ROM...)
Include this location in the search:
D:\
Browse
Don't search. I will choose the driver to install.
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
< Back
Next >
Cancel

Figure 16: Found New Hardware Wizard #8

Click on the Include this location in the search check box. Browse to the folder where the USB drivers were installed. The default location is *C:\Program Files\CES Wireless Technologies\GPS207S\USB Drivers*. If the GPS207S installation path was changed during the software installation process the *USB Drivers* folder will be located in the selected location. Click Next.

The following screen may be displayed.

Hardware Installation
The software you are installing for this hardware:
CES Wireless Technologies GPS207 Trace
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

Figure 17: Hardware Wizard, Windows Compatibility Test

If the above is displayed click on Continue Anyway and the software will be installed. The following screen will be displayed.

Found New Hardware Wizard
Completing the Found New Hardware Wizard
The wizard has finished installing the software for:
CES Wireless Technologies GPS207 Trace
Click Finish to close the wizard.
< Back
Finish
Cancel

Figure 18: Found New Hardware Wizard #9

Click Finish and the next step in the USB device installation process will begin and the following screen will be displayed.

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Read our privacy policy
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
< Back
Next >
Cancel

Figure 19: Found New Hardware Wizard #10

Select *No, not this time* and click Next.

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install software for:
CES Wireless Technologies GPS207 Modem
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

Figure 20: Found New Hardware Wizard #11

Select *Install from a list or specific location (Advanced)* and click Next.

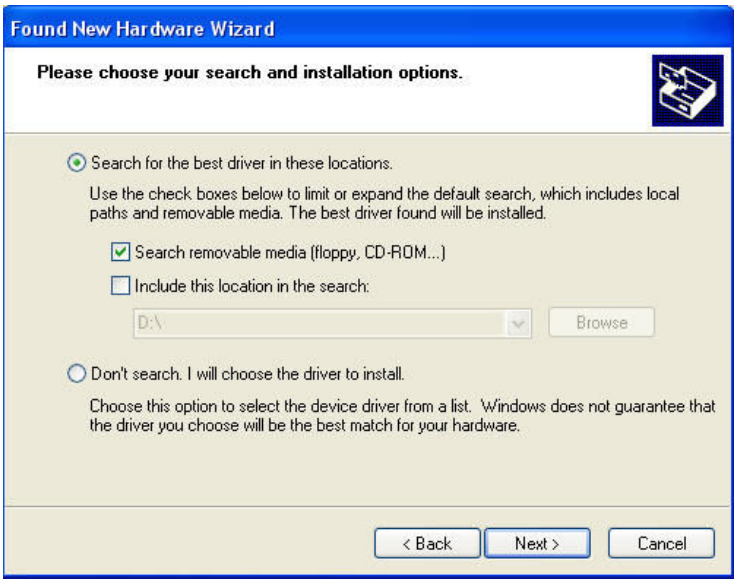
Found New Hardware Wizard
Please choose your search and installation options.
Search for the best driver in these locations.
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
Search removable media (floppy, CD-ROM...)
Include this location in the search:
D:\
Browse
Don't search. I will choose the driver to install.
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
< Back
Next >
Cancel

Figure 21: Found New Hardware Wizard #12

Click on the Include this location in the search check box. Browse to the folder where the USB drivers were installed. The default location is *C:\Program Files\CES Wireless Technologies\GPS207S\USB Drivers*. If the GPS207S installation path was changed during the software installation process the *USB Drivers* folder will be located in the selected location. Click Next.

The following screen may be displayed.

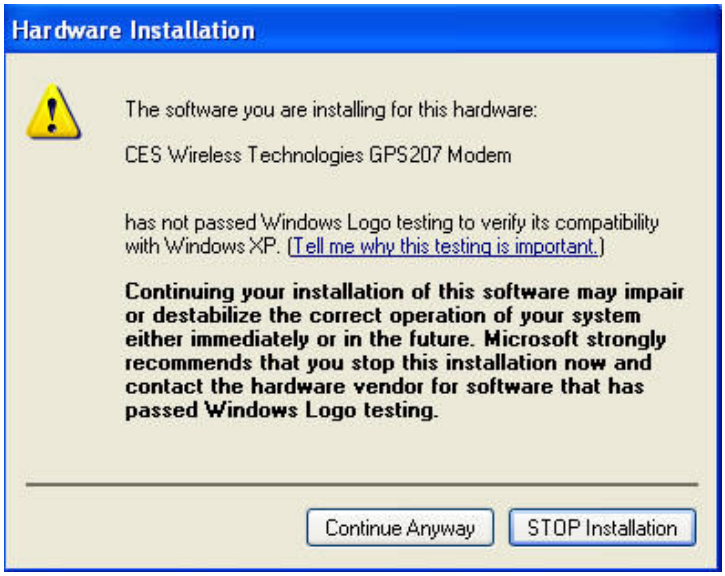
Hardware Installation
The software you are installing for this hardware:
CES Wireless Technologies GPS207 Modem
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

Figure 22: Hardware Wizard, Windows Compatibility Test

If the above is displayed click on Continue Anyway and the software will be installed. The following screen will be displayed.

Found New Hardware Wizard
Completing the Found New Hardware Wizard
The wizard has finished installing the software for:
CES Wireless Technologies GPS207 Modem
Click Finish to close the wizard.
< Back
Finish
Cancel

Figure 23: Found New Hardware Wizard #13

Click Finish to complete the installation of the USB drivers.

4.0 Using the GPS207S

To run the GPS207S programming software double click on the icon on the desktop or click on the Start button, select All Programs, select the CES Wireless Technologies folder and then click on GPS207S. The main form will be displayed.

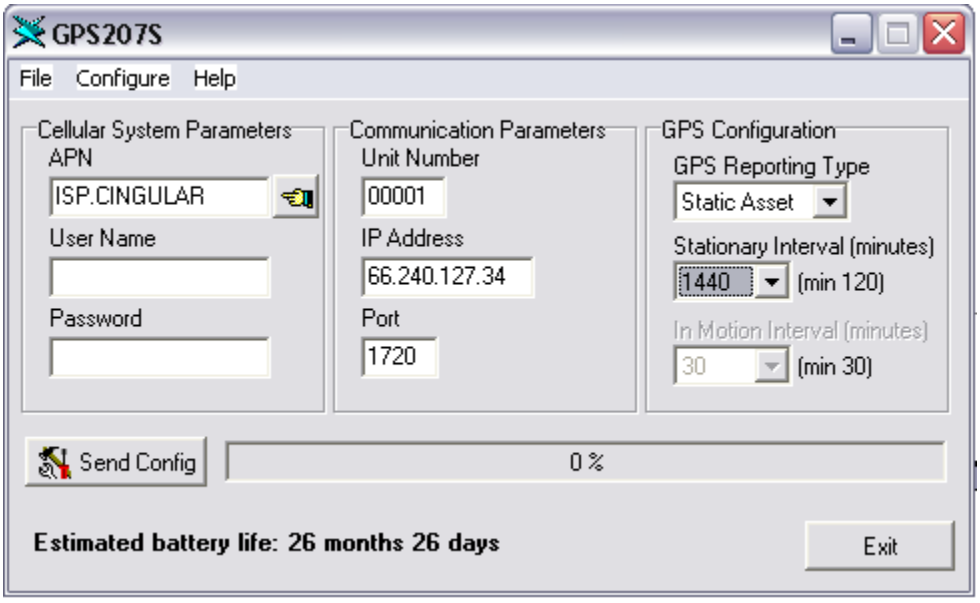

Figure 24: GPS207S Main Form

4.1 Configure the Com Port

The first step in using the GPS207S is to configure the com port used to communicate with the GPS207.

4.1.1 Determining the Com Port Number

With the GPS207 connected to a USB port bring up the Windows Device Manager to determine what com port has been assigned to the GPS207. To access the Device Manager click ob the Start button and select Control Panel. Once the Control Panel is displayed select System.

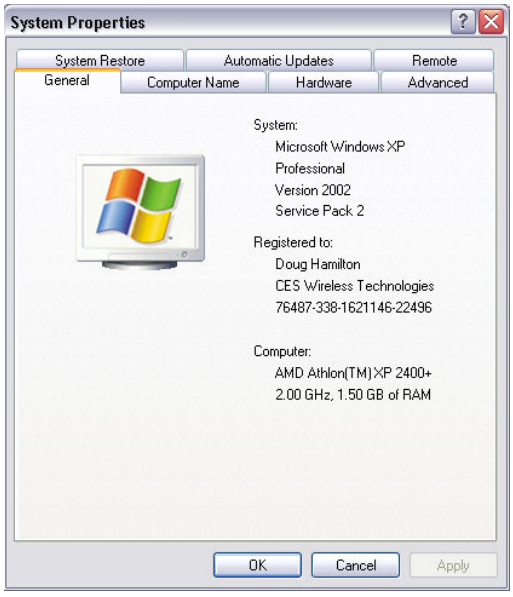

Figure 25: System Properties

Click on the Hardware tab. Click on the button labeled Device Manager.

System Properties
System Restore
Automatic Updates
Remote
General
Computer Name
Hardware
Advanced
Device Manager
The Device Manager lists all the hardware devices installed on your computer. Use the Device Manager to change the properties of any device.
Device Manager
Drivers
Driver Signing lets you make sure that installed drivers are compatible with Windows. Windows Update lets you set up how Windows connects to Windows Update for drivers.
Driver Signing
Windows Update
Hardware Profiles
Hardware profiles provide a way for you to set up and store different hardware configurations.
Hardware Profiles
OK
Cancel
Apply

Figure 26: System Properties, Hardware

The Device Manager will now be displayed.

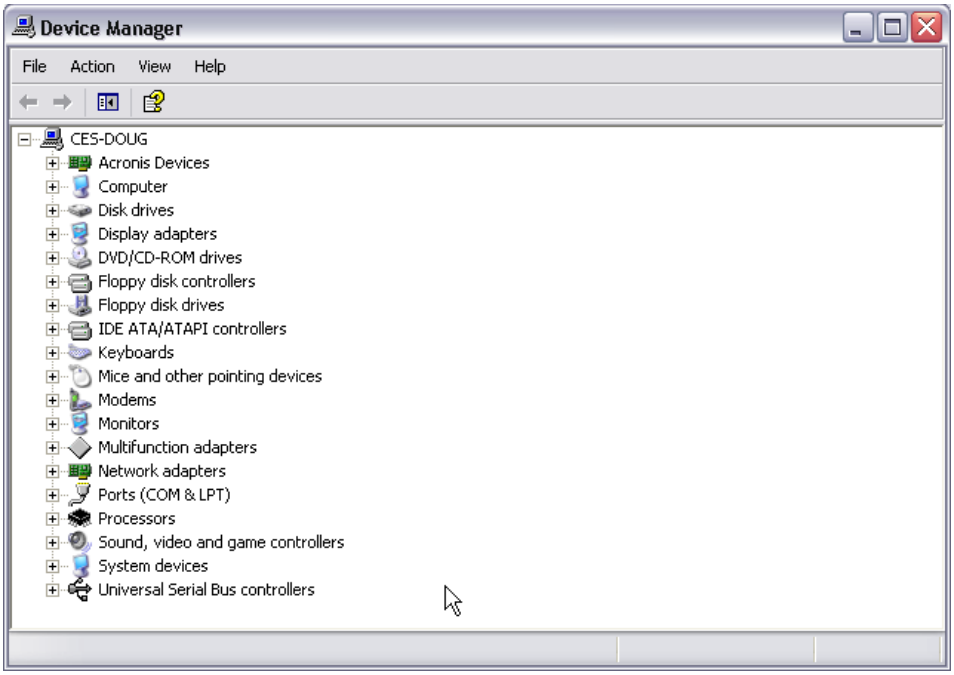

Figure 27: Device Manager

Click on the plus sign in front of Ports (COM & LPT).

Figure 28: Expand the Ports in the Device Manager

Something similar to the image below will be displayed.

Figure 29: Ports (COM & LPT) in the Device Manager

Make a note of the com port assigned to the CES Wireless Technologies GPS207 Modem. In the example above this is COM6. This is the com port to use to program with the GPS207.

4.1.2 Configuring the Com Port in the GPS207S

To configure the com port select *Configure* on the main menu and then select *Com Port*. The Select Com Port form will be displayed.

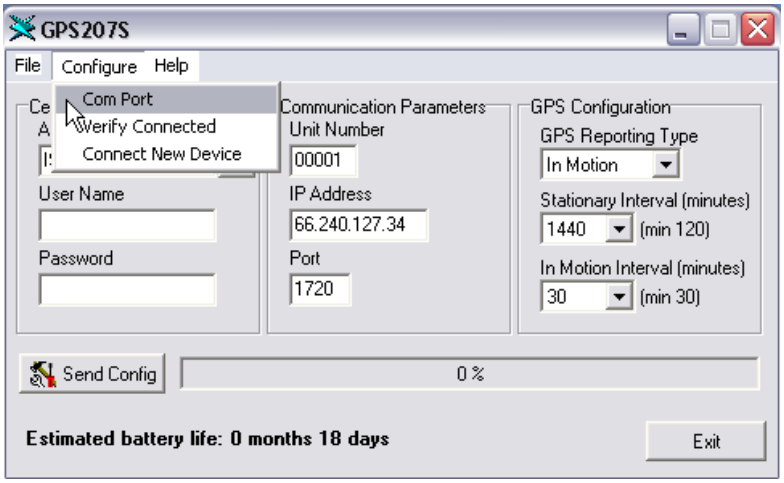

Figure 30: Configure Menu

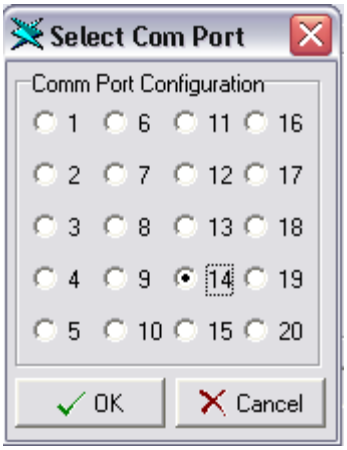

Figure 31: Select Com Port Form

Select the Com Port number that has been assigned to the GPS207 Modem as noted in section 4.1.1. Click OK. The selection will be stored in the application settings so that this only needs to be done once, or if the Com Port number changes (i.e. if the GPS207 is connected to a different USB port).

The GPS207S is now configured to communicate with the GPS207.

4.2 File Menu

The File menu has four options on it. They are *Open*, *Save*, *Save As* and Exit.

Figure 32: File Menu

4.2.1 Open

The Open menu selection provides the capability to open a saved configuration. To open a saved configuration select *Open* on the *File* menu. The Open dialog will be displayed.

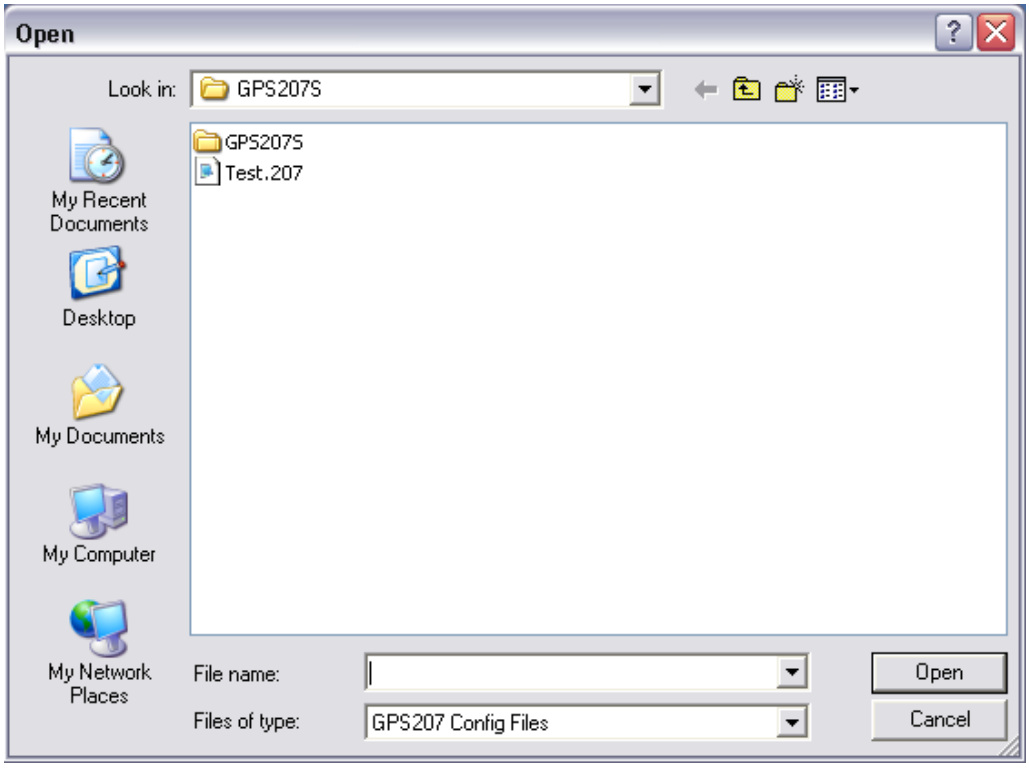

Figure 33: Open Dialog

Select the desired save configuration file (GPS207S configuration files have a .207 extension) and click Open. The file name of the configuration that was opened will be displayed in the GPS207S title bar.

Figure 34: GPS207S Title Bar Displaying Configuration File Name

4.2.2 Save

To save the current configuration select *Save*. If a configuration file was previously loaded or the current configuration was previously saved the current settings will be saved in the same file. Otherwise the Save As dialog will be displayed (refer to Section 4.2.3).

4.2.3 Save As

To save the current configuration in a new file select *Save As*. The Save GPS207 Config File form will be displayed.

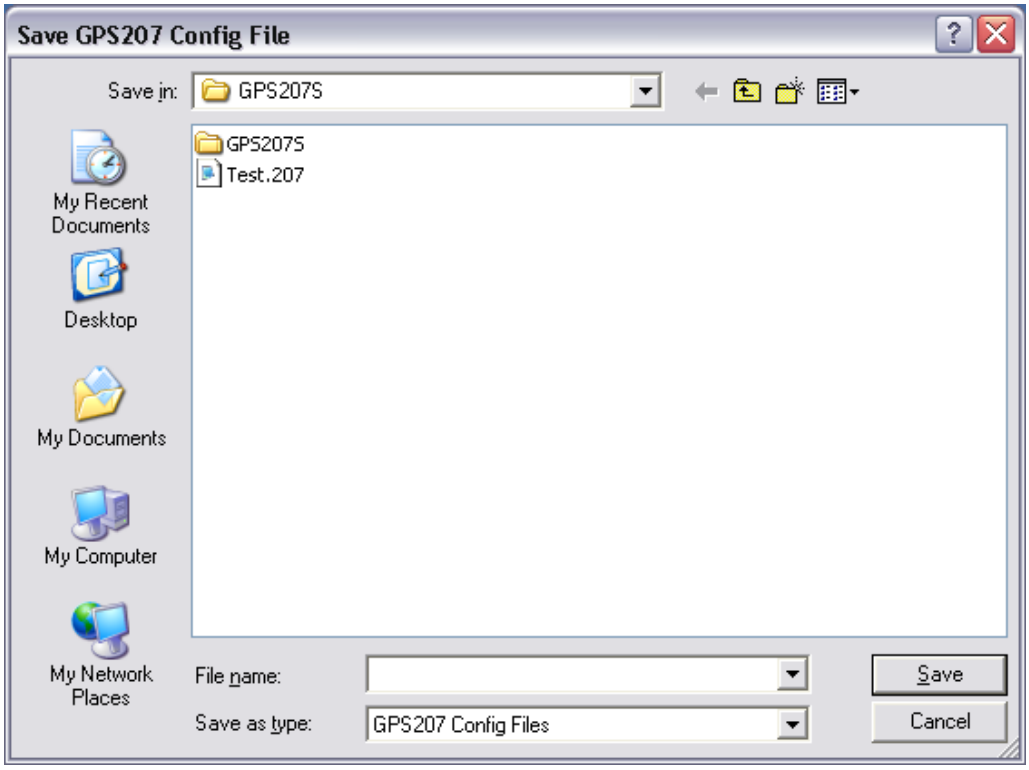

Figure 35: Save GPS207 Config File

This is the typical Windows save file dialog. Navigate to the folder where you wish to save the file. Enter the file name and click on Save. The GPS207 configuration file extension (.207) will automatically be appended onto the file name that was entered.

4.2.4 Exit

To exit the GPS207S application select *File* and then *Exit*. A prompt will be displayed to save the current configuration. It is highly recommended that the configuration be saved the first time the application is configured. Otherwise the Com Port will have to be configured again next time the application is used.

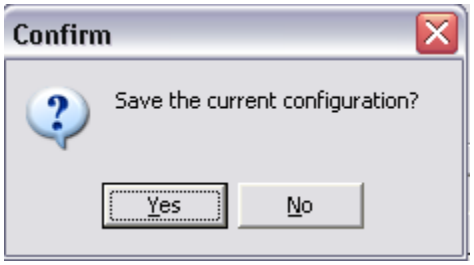

Figure 36: Save Current Configuration Dialog

Note – the GPS207S application can also be closed by clicking on the Exit button or the red X in the upper right corner of the main application form.

4.3 Configure Menu

The Configure menu has three items on it. They are *Com Port*, *Verify Connected* and *Connect New Device*.

Figure 37: Configure Menu

4.3.1 Com Port

Refer to Section 4.1 for more information on how to configure the com port.

4.3.2 Verify Connected

To verify that a device is connected and that the com port has been properly configured select *Verify Connected*.

If a device is connected and the com port has been properly configured the following dialog will be displayed.

Figure 38: Device is Connected Dialog

If a device is not connected or the com port has not been properly configured the following dialog will be displayed.

Figure 39: Device Not Connected or Com Port Not Properly Defined Dialog

4.3.3 Connect New Device

To connect a new device select the *Connect New Device* menu selection. This is important to do when programming multiple devices. Select this item and then disconnect the current device. Connect the new device.

4.4 Help Menu

There is one option on the *Help* menu: *About*.

4.4.1 About

Selecting About on the Help menu will cause the following form to be displayed. The form displays the copyright notice and the version number of the software as well as other important information.

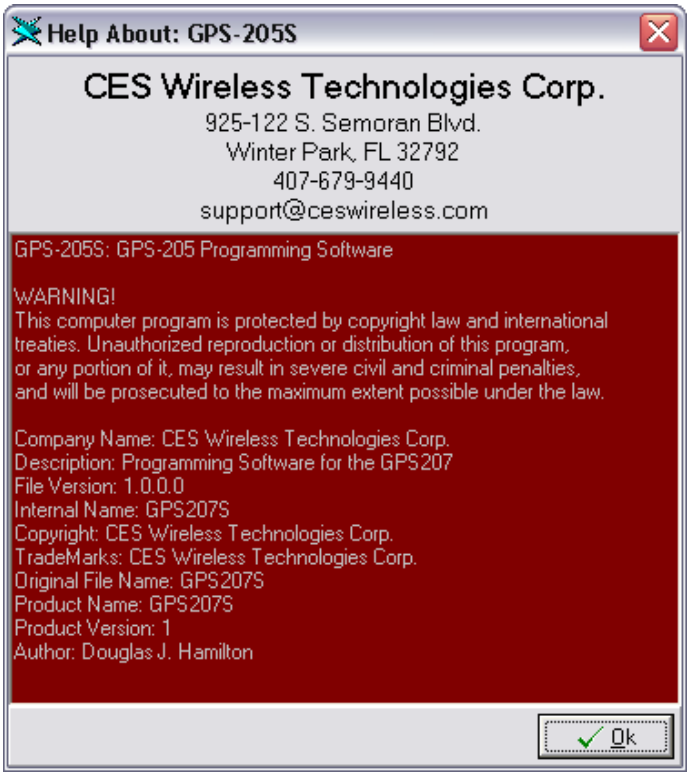
Help About: GPS-205S
CES Wireless Technologies Corp.
925-122 S. Semoran Blvd.
Winter Park, FL 32792
407-679-9440
support@ceswireless.com
GPS-205S: GPS-205 Programming Software
WARNING!
This computer program is protected by copyright law and international treaties. Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under the law.
Company Name: CES Wireless Technologies Corp.
Description: Programming Software for the GPS207
File Version: 1.0.0.0
Internal Name: GPS207S
Copyright: CES Wireless Technologies Corp.
TradeMarks: CES Wireless Technologies Corp.
Original File Name: GPS207S
Product Name: GPS207S
Product Version: 1
Author: Douglas J. Hamilton
Ok

Figure 40: Help About Form

Click OK to close the form.

4.5 GPS207S Main Form

The main form of the GPS207S has three categories of programming parameters, a button to send the configuration to the GPS207, a progress bar, a label displaying the estimated battery life based upon the currently selected parameters and an exit button.

The different categories of programming parameters are

- Cellular System Parameters
- Communication Parameters
- GPS Configuration

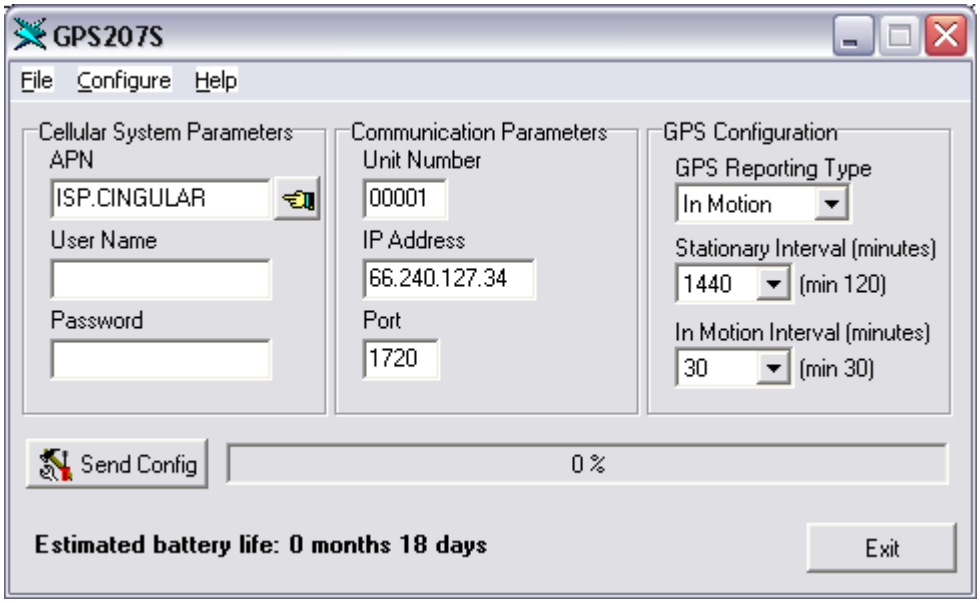

Figure 41: GPS207S Main Form

4.5.1 Cellular System Parameters

The Cellular System Parameters contain the information necessary to connect to the cellular network. These values are supplied by the cellular provider. The parameters are APN, User Name and Password. Enter the information that was provided by the cellular provider. Known cellular parameters can be selected by clicking on the button next to the APN field. When this is done the Select Network form will be displayed.

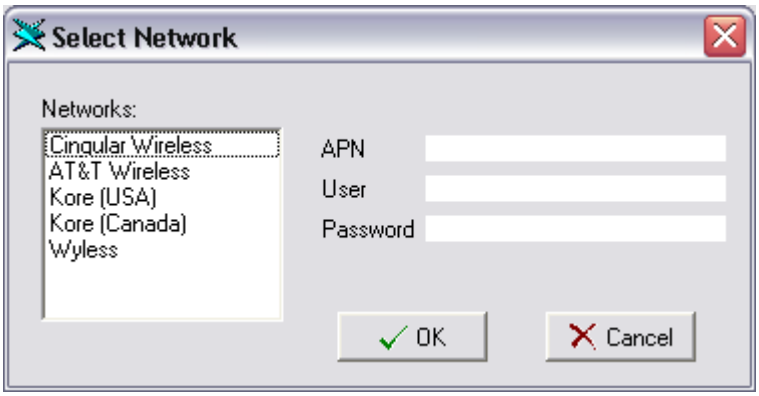

Figure 42: Select Network

If using one of the networks on the form click on it and click OK. This will cause the cellular parameters in the GPS207S main form to be updated with these values. If the network being used is not in the list you will have to contact the cellular provider to obtain them.

4.5.2 Communication Parameters

The Communication Parameters contain the information required to send data to Power-Trak3 or to FleetLinc. There are three fields: Unit Number, IP Address and Port.

4.5.2.1 Unit Number

The Unit Number is a unique identifier that enables the software to determine which device is which. It is very important that a unique number be programmed into each GPS-201. If using FleetLinc the Unit Number will be provided by CES Wireless Technologies.

4.5.2.2 IP Address

The IP Address of the software (i.e. Power-Trak3 or FleetLinc) should be entered here. This is the IP Address to which the GPS-207 will send packets to.

4.5.2.3 Port

The Port number used to communicate with the server should be entered here. This port should match the configuration of the software on the server.

4.5.3 GPS Configuration

There are also three fields in the GPS Configuration. They are GPS Reporting Type, Stationary Interval and In Motion Interval.

4.5.3.1 GPS Reporting Type

There are two selections for the GPS Reporting Type. They are Static Asset (refer to Section 4.5.3.4) and In Motion (refer to Section 4.5.3.5).

4.5.3.2 Stationary Interval

The Stationary Interval is the interval the device should report at. For a Static Asset this is how often the device should report its position. For an In Motion asset this is the interval that the GPS207 should report its position when not moving.

4.5.3.3 In Motion Interval

The In Motion Interval only applies when the GPS Reporting Type is set to In Motion. This is the interval at which the GPS207 will report while it is moving.

4.5.3.5 Static Asset

If the GPS207 is to be programmed to report its position at fixed time intervals regardless of movement select Static Asset as the GPS Reporting Type.

The next step is to select the desired reporting interval from the available selections. The minimum value is 120 minutes (2 hours) and the maximum is 10080 minutes (once per week).

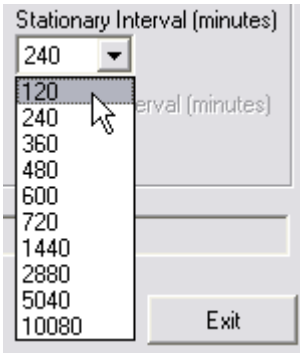

Figure 43: Static Asset - Stationary Interval Selections

Note: the label at the bottom of the GPS207S form will display the estimated battery life based upon the selected reporting interval.

Once the report interval is defined the configuration is ready to be sent to the GPS207.

4.5.3.5 In Motion

If the GPS207 is to be programmed to report using the In Motion GPS Reporting Type (report position at one interval while stationary and at another interval if it is in motion) there are two additional parameters – the stationary interval and the in motion interval.

The Stationary Interval has the following selections when using the In Motion type.

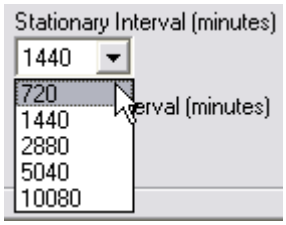

Figure 44: In Motion - Stationary Interval Selections

After selecting the stationary reporting interval the next step is to select the In Motion reporting interval. These are the available selections

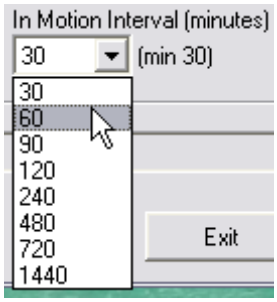

Figure 45: In Motion - In Motion Interval Selections

Note: the label at the bottom of the GPS207S form will display the estimated battery life based upon the selected reporting intervals.

Once the report intervals are defined the configuration is ready to be sent to the GPS207.

4.5.4 Send Config

Once all of the parameters are defined the GPS207 can be programmed. This is done by clicking on the Send Config button. As the GPS207 is programmed the progress bar to the right of the Send Config button will display the progress.

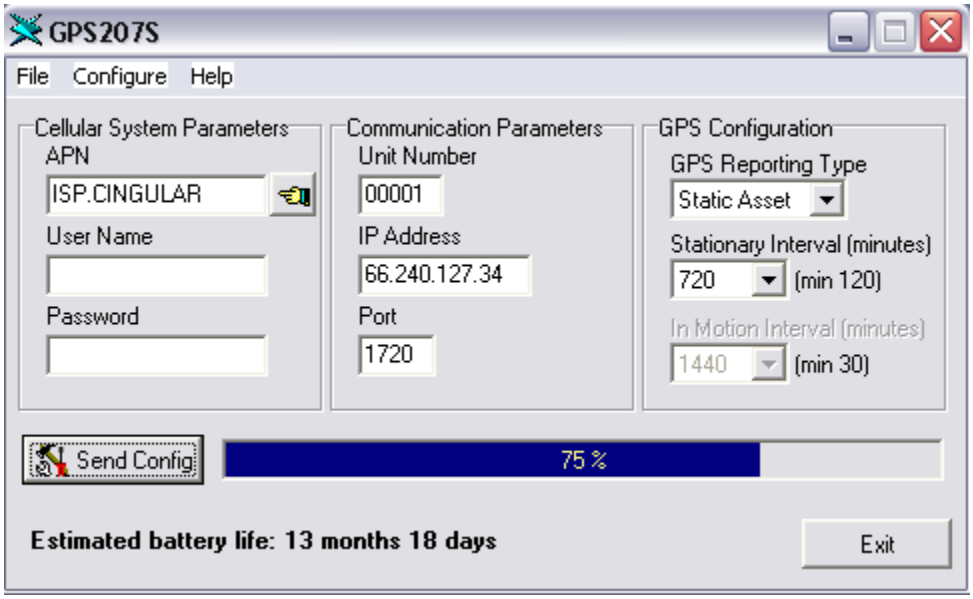

Figure 46: Programming a GPS207 Progress Bar

When the programming process is complete the following dialog will be displayed

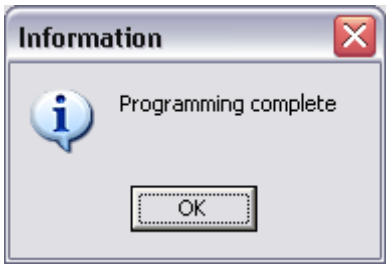

Figure 47: Programming Complete

6.0 Support

If you need help, we are easily accessible ….

Telephone: Call 407-679-9440, and ask for product support.

Fax: 407-679-8110

Email: support@ceswireless.com

Skype: Please email support@ceswireless.com to obtain your currently assigned support engineer's Skype address.

Product support may ask you to **E-MAIL** a copy of the programmed parameters to us for analysis. To do this, go to **FILE** on the DP-1000S main menu, and click on **SAVE AS**. Note the path to the saved file in the save file dialog. Attach this file to an e-mail and send it to you product support representative or to the e-mail address noted above.

Product support may ask you to **PRINT** a copy of the programmed parameters, and fax to for analysis. To do this, go to **FILE** on the DP-1000S main menu, and click on **PRINT**.

Support Resources: www.ceswireless.com

FTP Site: Please go to www.ceswireless.com and register for an FTP site User Name and Password